



Product Introduction:

Honey TSM-PC/PA05A

by Trinasolar



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TSM – PC/PA05A Introduction

Logo and Datasheet

Reference

the Newest Addition to our Multi Series: TSM-PC/PA05A

powered by our new **Honey** cells

by **TrinaSolar**

TSM-PC/PA05



TSM-PC/PA05A



TSM-PC/PA14



a Worthy Successor – **Honey** TSM-PC/PA05A



Lower total system cost

15.9% module **efficiency**

Power range of 250W-260W

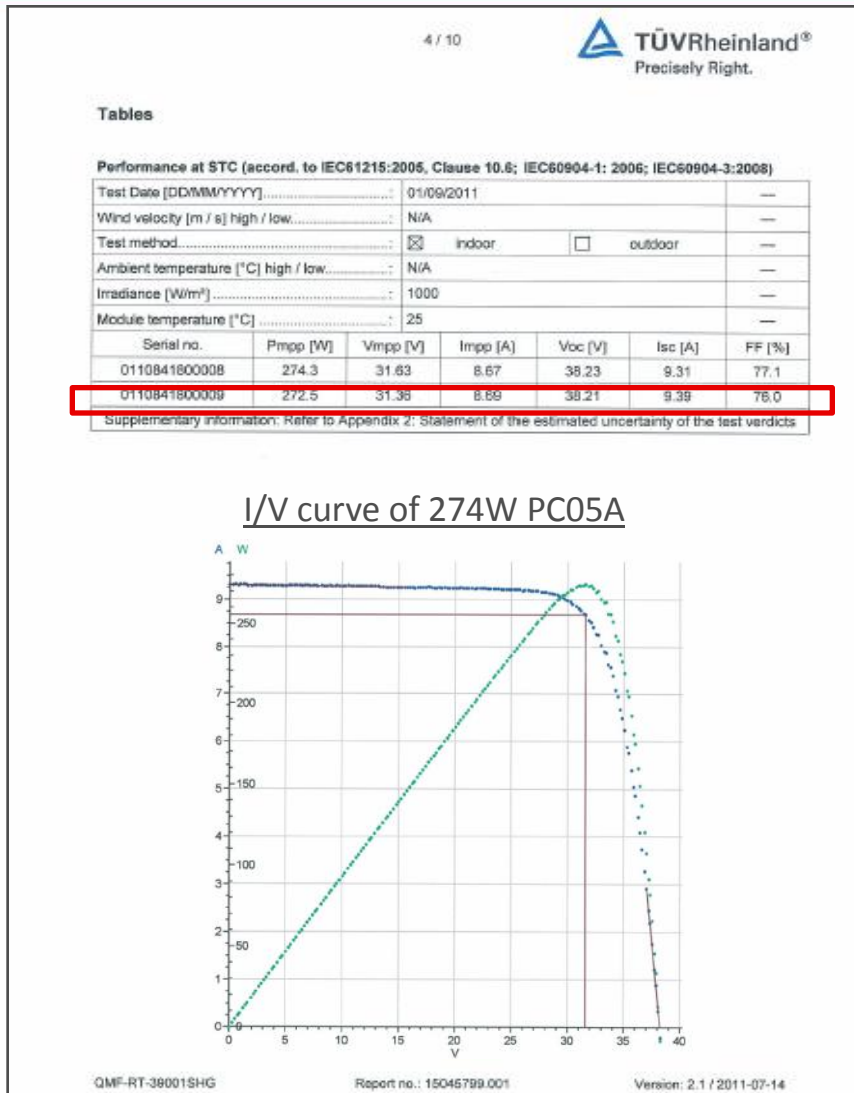
10% more power

Excellent response under
short wave length irradiance

25 year linear **power warranty**
10 year product warranty

High efficiency modules for **residential** and
commercial rooftops

a World Record-setting Module



Polycrystalline 6" 60 cell
module rankings by output:

1. Trina Solar

PC05A = 274.3W

2. Schott Solar –

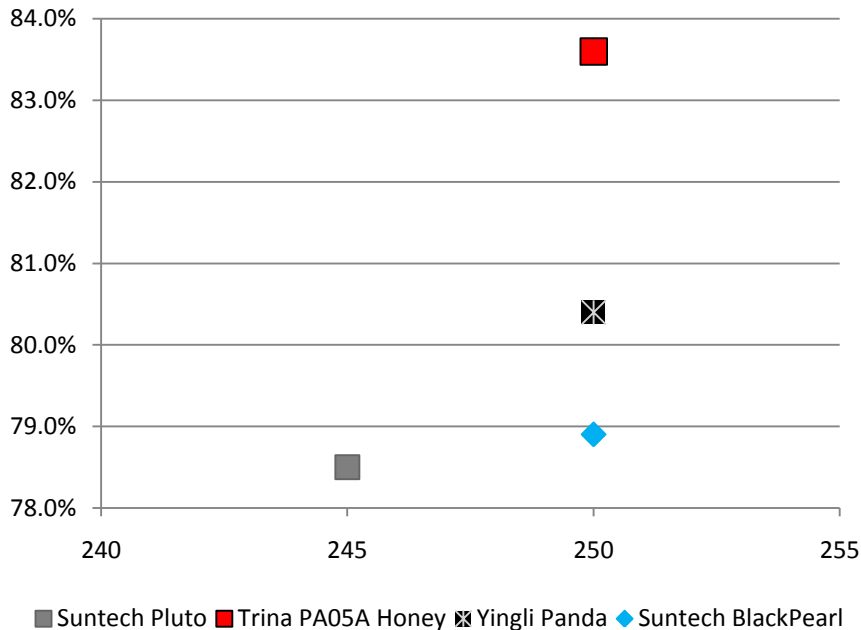
60 cell = 268W

3. Qcells –

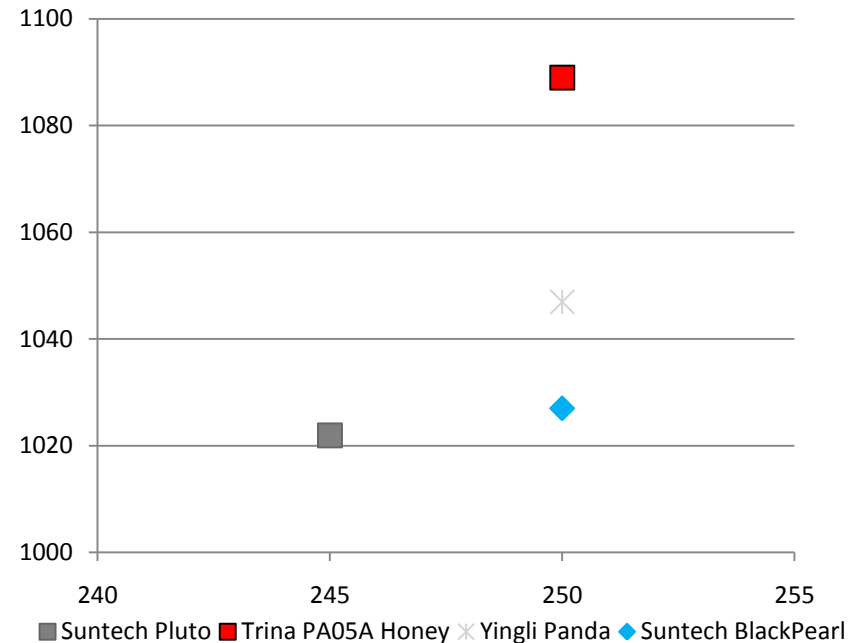
Q.antum = 268W

System Level (245W and 250W) Comparison

Wattage vs. Performance Ratio

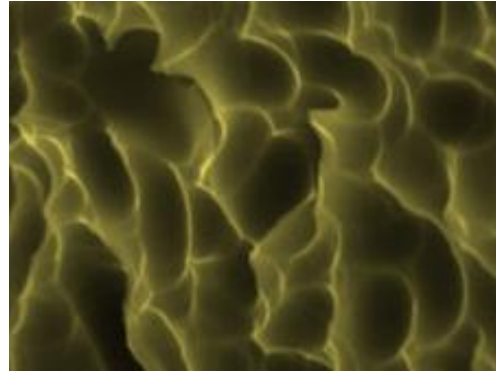
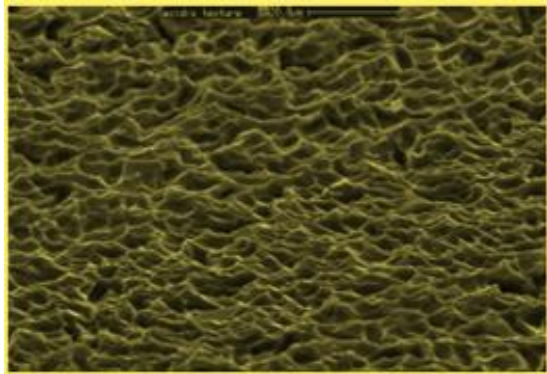


Wattage vs. Yield (kWh/kWp)

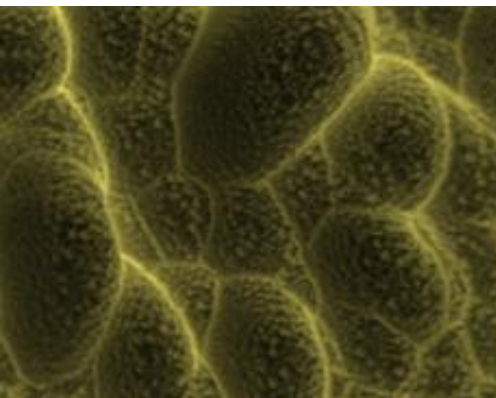
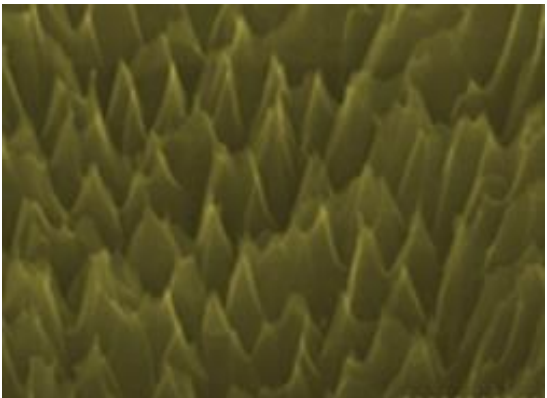


When it comes to **Honey** PA05A's yield and system performance ratio, there's just no comparison

Improved Surface Texturing



Conventional acid texturing methods



our **Advanced** texturing methods

Texturing increases
surface area



More surface area catches
more light



Surface reflectivity reduced
from 23% to under 4%



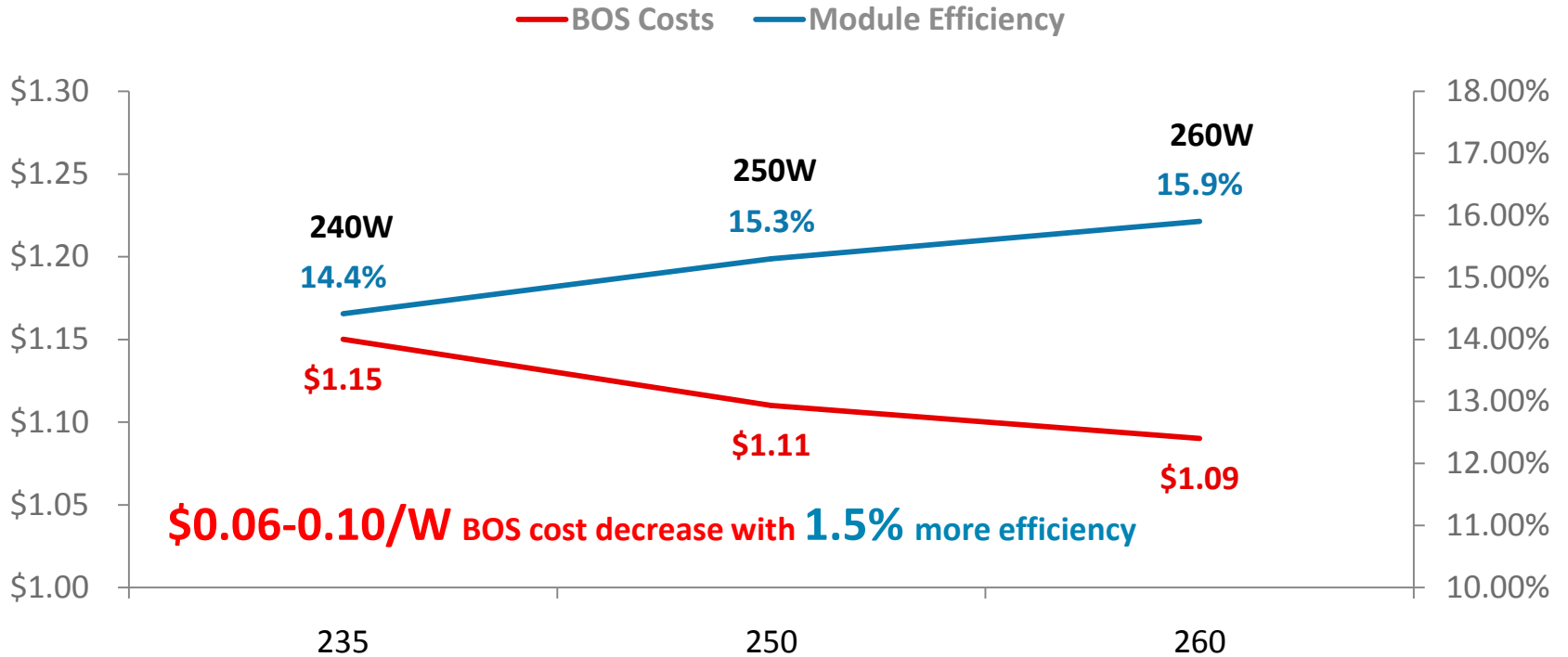
Cells harvest more light



Cell **efficiency** increased by
0.3~0.5%

Honey reduces Costs

by Trinasolar



TSM – PC/PA05A Introduction

Logo and Datasheet

Reference

Official Honey Logo

Honey

by **Trina**solar

Official Datasheet

Mono **Mullt** Solutions


TSM-PC05A TSM-PA05A THE Honey MODULE

**EFFICIENCY UP TO
15.9%**

**WATTAGE UP TO
260W**

**PRODUCT WARRANTY
10 YEARS**

**LINEAR POWER WARRANTY
25 YEARS**

-  Module can bear snow loads up to **5400Pa** and wind loads up to **2400Pa**
-  Guaranteed power output **0~+3%**
-  High performance under low light conditions
Cloudy days, mornings and evenings
-  Independently certified by **International certification bodies**
-  Manufactured according to International Quality and Environment Management System **ISO9001, ISO14001**

Founded in 1997, Trina Solar is a vertically integrated PV manufacturer, producing everything from ingots to modules, using both mono and multicrystalline technologies. By the end of 2011, the company will have a nameplate module capacity of 1.0GW. Trina Solar's wide range of products are used in residential, commercial, industrial and public utility applications throughout the world.

Only by matching an efficient construction with proven performance will we, as an industry, achieve grid parity. And at Trina Solar, we have both.

Trina Solar Limited
www.trinasolar.com



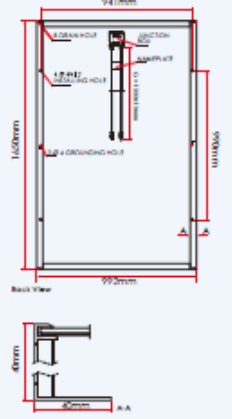
LINEAR PERFORMANCE WARRANTY NEW

10 Year Product Warranty + 25 Year Linear Power Warranty

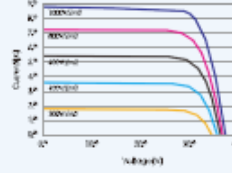


TSM-PC05A / TSM-PA05A THE Honey MODULE

DIMENSIONS OF PV MODULE TSM-PC/PA 05A

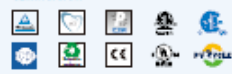


1-I-V CURVES OF PV MODULE TSM-260 PC/PA 05A



Avg. efficiency reduction of 4.5% at 200W/m² according to EN 60904-1.

CERTIFICATION



ELECTRICAL DATA @ STC	TSM-245 PC/PA05A	TSM-260 PC/PA05A	TSM-285 PC/PA05A	TSM-340 PC/PA05A
Peak Power Watts-Pow (P _{MP})	245	250	255	260
Power Output Tolerance-Pow (K)	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage-V _{MPP} (V)	29.8	30.1	30.5	31.0
Maximum Power Current-I _{MPP} (A)	8.53	8.30	8.36	8.39
Open Circuit Voltage-V _{OC} (V)	36.8	37.2	37.5	37.8
Short Circuit Current-I _{SC} (A)	8.83	8.90	8.95	9.02
Module Efficiency-η (K)	15.0	15.3	15.4	15.9

Values of Standard Test Conditions (STC) (At Max AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

ELECTRICAL DATA @ NOCT	TSM-245 PC/PA05A	TSM-260 PC/PA05A	TSM-285 PC/PA05A	TSM-340 PC/PA05A
Maximum Power (W)	179	183	184	190
Maximum Power Voltage (V)	27.3	27.5	27.8	28.3
Maximum Power Current (A)	6.58	6.65	6.66	6.71
Open Circuit Voltage (V)	33.9	34.3	34.6	34.9
Short Circuit Current (A)	7.14	7.20	7.24	7.30

NOCT: Irradiance of 800W/m², Ambient Temperature 25°C, Wind Speed 1m/s.

MECHANICAL DATA	
Solar cells	Multicrystalline 156 × 156mm (6 inches)
Cells orientation	60 cells (6 × 10)
Module dimension	1450 × 992 × 40mm (56.95 × 39.05 × 1.57 inches)
Weight	18.5kg (43.0lb)
Glass	High transparency solar glass 3.2mm (0.126 inches)
Frame	Anodized aluminium alloy
J-Box	IP 45 rated
Cables / Connector	Photovoltaic Technology cable 4.0mm ² (0.006 inches ²), 1000mm (39.4 inches), MC4

TEMPERATURE RATINGS	MAXIMUM RATINGS
Nominal Operating Cell Temperature (NOCT)	Operational Temperature
44°C (107°C)	-40~+85°C
Temperature Coefficient of P _{MP}	Maximum System Voltage
(-0.43~0.040)/K	1000VDC
Temperature Coefficient of V _{OC}	Max Series Fuse Rating
(-0.330~0.032)/K	15A
Temperature Coefficient of I _{SC}	
(0.045~0.011)/K	

WARRANTY

- 10 years workmanship warranty
- 25 years linear performance warranty


(Please refer to Trina Solar product warranty for details)

PACKAGING CONFIGURATION

- Modules per box 25 pcs
- Modules per 40' container 450 pcs

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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Comparison of Electrical Characteristics (I)

Type	Model number		Power @ STC (Wp)	Power @NOCT (Wp)	Power Tolerance	Module Efficiency (%)	Temperature Coefficient (%/°C)		
							Pmax	Voc	Isc
Multi	PC/PA05A	TSM-250	250	183	0/+3%	15.30	-0.41	-0.32	0.053
Multi	STP-PLUTO	245-Wdm	245	180	0/+5%	14.80	-0.40	-0.314	0.051
	YGE 245	YL245P-29b	245	177.9	0/+5W	15.00	-0.45	-0.37	0.06
	LDK	245P-20	245	178	+/-3%	15.01	-0.47	-0.34	0.06
	LDK	250P-20	250	181	+/-3%	15.32			
Mono	STP	245S-20/Wd	245	180	0/+5%	14.80	-0.45	-0.34	0.05
	STP	250S-20/Wd	250	183	0/+5%	15.20			
	Yingli PANDA	YL245C-30b	245	177.9	0/+5W	15.00	-0.45	-0.33	0.04
	Yingli PANDA	YL250C-30b	250	181.6	0/+5W	15.30			
	LDK	245D-20	245	178	0/+3	15.01	-0.47	-0.34	0.06
	LDK	250D-20	250	181	0/+3	15.32			

Honey has higher efficiency, power @NOCT and better Pmax performance than similar multi and mono modules

Comparison of Electrical Characteristics (II)

Type	Model number		Dimension (mm)	Weight (kg)	J-box	Cable length	Connector	Maximum Series Fuse Rating (A)
Multi	PC/PA05A	TSM-250	1650 × 992 × 40	19.5	IP65	4.0mm ² , 1000mm	MC4 / H4	15
Multi	STP-PLUTO	245-Wdm	1640 × 992 × 50	19.8	IP67	4.0mm ² , 1000mm	RADOX® SOLAR integrated twist locking connectors	20
	YGE 245	YL245P-29b	1650 x 990 x 50	19.5	IP65	4.0mm ² , 1200mm	MC4 / IP67 or Amphenol H4 / IP68	15
	LDK	245P-20	1642 x 994 x 40	20	IP65	4.0mm ² , 1000mm	MC4 or compatible connectors	20
	LDK	250P-20						
Mono	STP	245S-20/Wd	1640 × 992 × 50	19.8	IP67	4.0mm ² , 1000mm	RADOX® SOLAR integrated twist locking connectors	20
	STP	250S-20/Wd						
	Yingli PANDA	YL245C-30b	1650 x 990 x 50	19.5	IP65	4.0mm ² , 1200mm	MC4 / IP67 or Amphenol H4 / IP68	20
	Yingli PANDA	YL250C-30b						
	LDK	245D-20	1642 x 994 x 40	20	IP65	4.0mm ² , 1000mm	MC4 or compatible connectors	20
	LDK	250D-20						

Honey PC/PA05A is more powerful and more efficient, but still lightweight and easy to handle

CHINA

JAPAN

KOREA

U.S.A.

AUSTRALIA

SWITZERLAND

GERMANY

ITALY

SPAIN

THANK YOU

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